



australian mineral statistics

december quarter 2006



07

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data sources

The statistics in this publication are obtained from several sources, as follows.

- » The bulk of mine production data (other than petroleum) is obtained from companies, published company reports and ABARE estimates. Data are supplemented where necessary by information from state mines departments (or their equivalents).
- » Petroleum production and sales are based on data obtained from the Resources Division of the Australian Government Department of Industry, Tourism and Resources.
- » Smelter and refinery production data are provided by companies operating the major smelters and refineries.
- » Trade data are obtained from official ABS compiled statistics, supplemented by ABARE estimates where necessary.
- » Price information is from published sources.

The assistance of the organisations supplying data is gratefully acknowledged by ABARE.

note on mine production data

In most instances, data refer to actual mine output. However, in a small number of cases, despatches or sales data are used as proxies for production.

Quantities of minerals produced are reported in terms of the product in which they leave each mine site. This includes various stages of ore dressing, processing and elementary smelting where these are carried out in an associated plant at, or near, the mine. The output is recorded as ore where no treatment is undertaken at the mine, or as a concentrate where ore dressing operations are carried out.

definitions

definitions and explanations

Small discrepancies in totals are generally due to the rounding of components.

zero is used to denote nil or a negligible amount.

p denotes a preliminary figure.

s denotes an ABARE estimate.

common abbreviations and conversions

kg	kilogram	2.20462 lb (pounds)
t	tonne	1000 kilograms
kt	kilotonne	1000 tonnes
Mt	megatonne	1 000 000 tonnes
mtu	metric ton unit	10 kilograms
c	metric carat	
L	litre	1.761 pints
kL	kilolitre	1000 litres
ML	megalitre	1 000 000 litres
Mm ³	million cubic metres	1 000 000 cubic metres
bbL	barrel	159 litres
oz	troy ounce	0.031 kilograms
\$m	million dollars (Australian)	
fob	free on board	
for	free on rail	
fot	free on truck	
cif	cost, insurance and freight	

main features

production

Almost two-thirds of Australia's major minerals and energy commodities recorded production increases in the December quarter 2006 compared with the September quarter 2006.

Substantial increases in production of minerals and energy commodities occurred for refined lead (up 146 per cent), tin mine (52 per cent), other petroleum refinery products (41 per cent) and uranium oxide (28 per cent).

Other significant increases occurred for mineral sands (leucoxene) and refined silver (both up 17 per cent), automotive diesel (15 per cent), nickel mine (14 per cent), intermediate nickel (13 per cent), titanium dioxide pigment (12 per cent) and refinery LPG (11 per cent).

Increases of 5-10 per cent were recorded for zircon, aviation turbine fuel, zinc mine, both refined and blister copper and refined zinc.

Minerals and energy commodities for which production fell significantly were lead bullion (down 32 per cent), silver mine (14 per cent), naturally occurring LPG (12 per cent) and rutile (11 per cent).

Decreases of 5-10 per cent were recorded for refined tin, ilmenite and natural gas.

exports

Australia's export earnings from mineral resources rose by 2 per cent in the December quarter 2006 compared with the previous quarter – up by \$602 million to \$27.1 billion, another record level.

This strong performance mainly reflected increased export volumes with two-thirds of the minerals and energy commodities. Compared with the December quarter 2005, export earnings were 19 per cent higher.

The commodity that had the largest increase in export earnings in the December quarter 2006 was nickel, up \$358 million (21 per cent) to \$2034 million. This was as a result of increases in both export volumes and export unit values.

Other commodities that recorded significant increases in export earnings in the December quarter 2006 were: zinc, up \$236 million (25 per cent) to \$1182 million; iron ore and pellets, up \$194 million (5 per cent) to \$4102 million; alumina, up \$107 million (7 per cent) to \$1657 million; lead, up \$87 million (30 per cent) to \$381 million; copper, up \$85 million (5 per cent) to \$1772 million; and uranium, up \$69 million (55 per cent) to \$194 million.

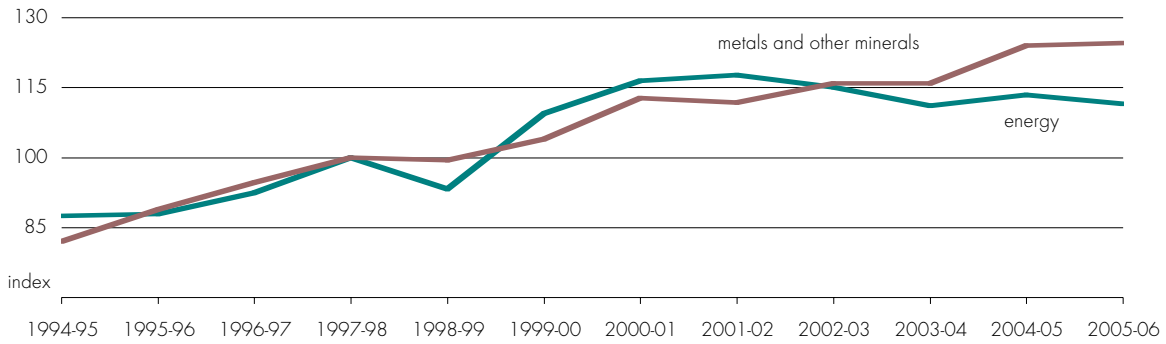
Major commodities that recorded falls in export earnings in the December quarter 2006 included: coking coal, down \$317 million (8 per cent) to \$3746 million; crude oil, down \$218 million (9 per cent) to \$2103 million; aluminium, down \$87 million (6 per cent) to \$1369 million; LNG, down \$75 million (6 per cent) to \$1287 million; refined petroleum products, down \$64 million (19 per cent) to \$278 million and refined gold, down \$61 million (3 per cent) to \$2351 million.

The index of export prices of Australian minerals resources (export unit returns) fell by 3 per cent in the December quarter 2006 compared with the previous quarter. Prices for energy minerals fell by 9 per cent while metals and related minerals prices rose by 2 per cent. Compared with the December quarter 2005, the December quarter 2006 index was 13 per cent higher.

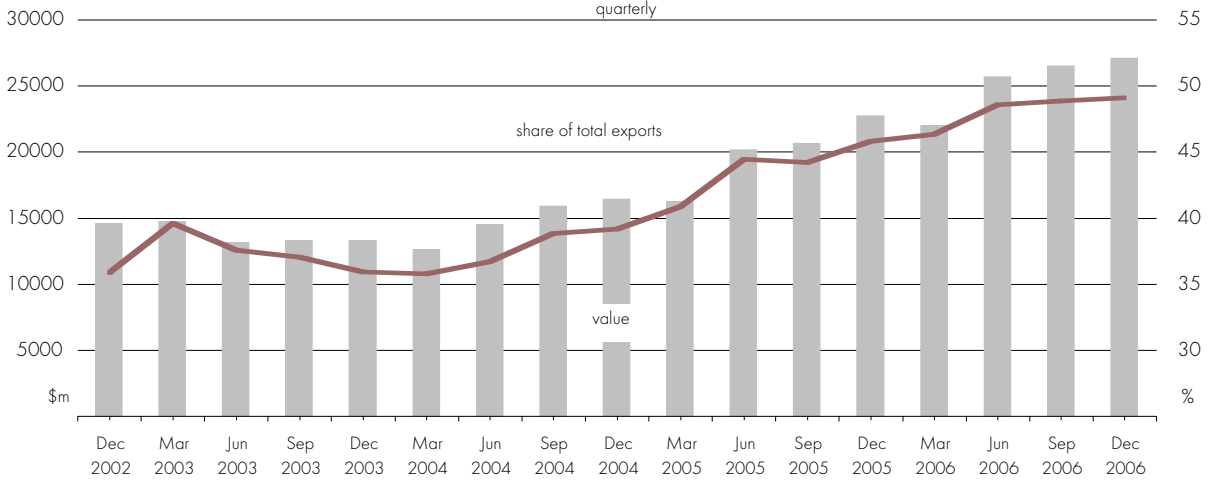
ABARE's most recent forecasts of minerals production, exports and prices for 2006-07 and 2007-08, along with projections to 2011-12, and analysis of key factors affecting the outlook for minerals and energy markets and Australian commodity industries, were published in the March issue of ABARE's quarterly journal, *Australian Commodities*, released on 6 March 2007.

resource sector indicators

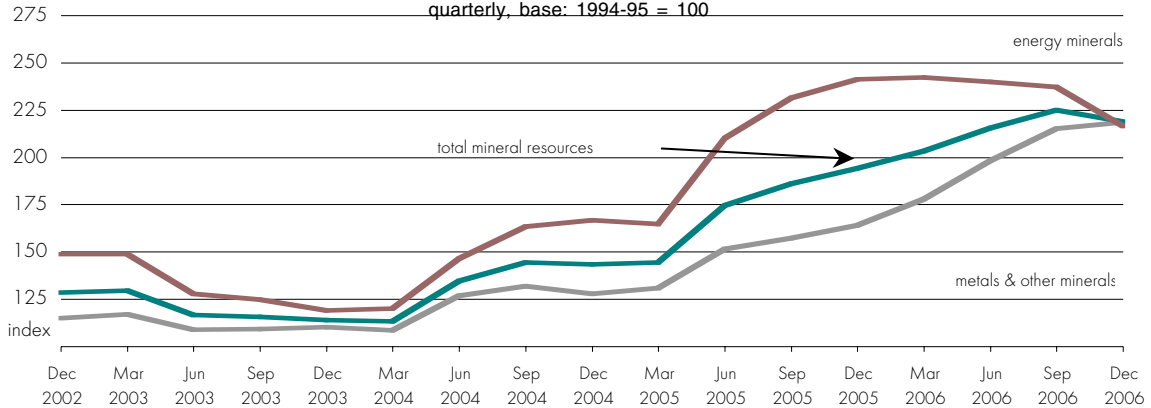
mine production - Australia
base: 1997-98 = 100



mineral resources exports
quarterly



export unit returns
quarterly, base: 1994-95 = 100



production summary

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Bauxite	kt	57 648	60 874	14 848	16 021	14 636	15 370	15 986	16 603
Alumina	kt	17 161	17 826	4 433	4 470	4 432	4 492	4 588	4 768
Aluminium (ingot metal)	kt	1 890	1 912	485	482	469	476	493	494
Coal									
Black, raw	Mt	393	398	102	101	93	102	102 s	101 s
Black, salable	Mt	305	306	78	78	72	78	77 s	76 s
Brown as	Mt	71	71	na	na	na	na	na	na
Copper									
Mine bs	kt	899	931	233	248	218	233	222	219
Blister c	kt	434	404	106	100	99	100	86	92
Refined s	kt	479	461	121	115	113	113	98	105
Diamonds	'000 ct	32 471	25 354	6 048	6 523	5 244	7 539	8 393	8 132
Gold									
Mine bs	t	266	250	64	66	60	60	62	62
Refined	t	345	380	82	88	99	110	83	87
Iron									
Iron ore and concentrate s	kt	251 918	263 815	66 133	67 220	60 569	69 894	72 088	72 540
Iron and steel s	Mt	7 395	7 866	2 030	1 926	1 915	1 995	2 021	2 006
Lead									
Mine bs	kt	682	761	211	201	180	170	175	161
Bullion c	kt	153	141	42	37	34	27	34	23
Refined	kt	234	234	49	62	60	63	24	59
Manganese s	kt	3 563	4 081	1 035	982	933	1 131	1 254	1 238
Nickel									
Mine bs	kt	192	183	46	52	41	44	44	50
Intermediate	kt	115	99	27	28	20	24	24	27
Refined, class 1	kt	116	104	27	29	24	24	29	30
Refined, class 2	kt	10	7	2	2	2	1	2	2
Petroleum, field									
Crude oil and condensate s	ML	27 311	24 320	6 877	6 626	5 345	5 467	7 665	7 580
LPG (naturally occurring)	ML	4 628	4 722	1 300	1 158	1 056	1 208	1 293	1 143
Natural gas	Mm ³	37 267	38 016	9 921	9 297	8 591	10 207	10 275	9 810
Petroleum, refinery									
LPG	ML	995	1 125	272	285	298	270	348	385
Automotive gasoline	ML	17 913	16 528	4 202	4 176	4 090	4 059	4 412	4 529
Aviation turbine fuel	ML	5 325	5 216	1 294	1 430	1 257	1 235	1 319	1 449
Automotive diesel oil	ML	12 822	10 154	2 919	2 664	2 345	2 226	2 315	2 659
Other	ML	3 659	3 252	838	756	845	813	693	980
Total	ML	40 202	36 274	13 726	13 487	12 924	12 664	13 498	14 531
Salt s	kt	12 254	11 758	2 830	2 983	2 848	3 097	2 680	2 780
Silver									
Mine bs	t	2 303	2 218	605	619	538	456	393	340
Refined	t	722	655	163	164	145	183	141	165
Tin									
Mine bs	t	2 055	1 805	1 012	233	230	330	262	656
Refined s	t	445	736	175	192	206	163	106	97
Titanium									
Ilmenite concentrate s	kt	1 993	2 184	541	497	559	588	636	584
Leucoxene concentrate	kt	68	79	20	17	12	30	41	48
Rutile concentrate s	kt	174	184	47	42	44	51	73	65
Synthetic rutile s	kt	751	712	195	178	184	155	196	194
Titanium dioxide pigment s	kt	204	208	52	53	53	51	49	55
Uranium oxide (U ₃ O ₈)	t	10 964	9 974	2 924	2 922	2 486	1 642	2 127	2 715
Zinc									
Mine bs	kt	1 352	1 380	356	338	346	340	324	354
Refined	kt	464	446	117	115	101	113	121	129
Zircon concentrate	kt	432	442	107	107	111	117	125	138

a Quarterly data are not available. **b** Total metallic content of minerals produced. **c** Metallic content. **p** Preliminary. **s** ABARE estimate. **na** Not available.

Sources: Australian Bureau of Statistics, Canberra; Coal Services Pty Limited; Queensland Government, Department of Natural Resources and Mines; ABARE.

2 volume of mine production indexes ^a

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Energy minerals	93.2	109.4	116.4	117.6	115.0	111.0	113.4	111.5
Metals and other minerals	99.4	103.9	112.7	111.8	115.8	115.9	124.0	124.5
Total minerals	95.8	106.9	114.8	115.1	115.5	113.5	118.8	118.1

^a Uranium included with energy.

Note: ABARE revised the method for calculating production indexes in October 1999. The indexes are now calculated on a chained weight basis using Fishers' ideal index with a reference year of 1997-98 = 100.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

3 exports summary

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Bauxite	kt	4 900	5 639	1 401	1 524	1 253	1 462	1 363	1 437
Alumina ^a	kt	14 073	14 499	3 470	3 832	3 575	3 622	3 698	4 059
Aluminium (ingot metal)	kt	1 512	1 617	411	423	382	400	434	408
Coal, black									
Metallurgical	Mt	124.92	120.48	29.99	30.42	29.60	30.46	32.77	31.34
Thermal	Mt	106.40	110.82	28.64	26.12	26.78	29.29	27.34	28.24
Copper ^{bs}	kt	701	790	181	235	194	181	174	181
Diamonds ^{cs}	'000 ct	32 471	25 354	6 048	6 523	5 244	7 539	8 394	8 132
Gold ^{bs}	t	309.24	315.14	79.19	72.71	69.94	93.30	92.82	81.16
Iron									
Iron ore and pellets	kt	228 456	239 380	58 856	64 657	54 123	61 744	64 259	68 226
Iron and steel	kt	2 338	2 428	570	570	620	668	633	674
Lead ^{bs}	kt	782	756	179	243	154	180	156	180
Manganese ore and concentrate	kt	3 128	3 215	466	854	640	1 255	1 086	1 221
Nickel ^{ds}	kt	218	202	53	54	48	47	51	57
Petroleum									
Crude oil and other refinery feedstock	ML	15 731	13 026	4 166	3 607	2 867	2 386	4 063	4 276
LNG	Mt	10.59	12.50	2.93	2.98	2.99	3.60	3.45	3.90
LPG	ML	2 844	2 800	985	556	602	656	731	811
Refinery products	ML	1 847	2 082	435	583	758	306	502	503
Salt	kt	12 128	10 776	2 567	2 651	2 638	2 920	2 389	2 928
Tin ^b	t	1 529	1 556	947	241	55	313	221	433
Titanium									
Ilmenite concentrate	kt	633	722	191	208	20	303	270	313
Leucoxene concentrate	kt	93	86	27	29	2	28	28	23
Rutile concentrate	kt	158	169	44	40	41	43	67	80
Synthetic rutile ^s	kt	517	472	135	118	124	96	140	131
Titanium dioxide pigment	kt	175	177	41	46	41	49	44	39
Uranium oxide (U ₃ O ₈)	t	11 249	10 253	3 100	3 353	2 040	1 760	1 856	3 005
Zinc ^b	kt	1 427	1 328	297	402	295	335	309	355
Zircon concentrate	kt	428	438	106	106	110	116	124	137

continued

3 exports summary *continued*

	Unit	Quarter							
		2004-05	2005-06 p	2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Bauxite	\$m	123	127	29	32	30	35	30	39
Alumina a	\$m	4 383	5 262	1 135	1 304	1 329	1 494	1 550	1 657
Aluminium (ingot metal)	\$m	3 726	4 788	1 003	1 162	1 226	1 397	1 456	1 369
Coal, black									
Metallurgical	\$m	10 758	17 003	4 106	4 472	4 295	4 131	4 063	3 746
Thermal	\$m	6 336	7 206	1 905	1 743	1 713	1 845	1 705	1 708
Copper e	\$m	3 082	5 653	955	1 432	1 446	1 820	1 687	1 772
Diamonds cs	\$m	658	526	125	135	109	157	176	172
Gems, other than diamonds	\$m	61	59	17	11	20	11	14	9
Gold, refined	\$m	5 523	7 089	1 445	1 541	1 666	2 436	2 412	2 351
Iron									
Iron ore and pellets	\$m	8 120	12 854	3 001	3 413	2 895	3 546	3 908	4 102
Iron and steel	\$m	2 031	1 674	403	410	414	446	421	447
Lead e	\$m	1 041	1 296	257	394	291	354	294	381
Manganese ore									
and concentrate	\$m	473	424	73	125	83	143	113	124
Nickel es	\$m	3 731	3 515	864	790	805	1 056	1 676	2 034
Petroleum									
Crude oil and other									
refinery feedstock	\$m	6 330	6 638	2 032	1 720	1 506	1 379	2 321	2 103
LNG	\$m	3 199	4 416	966	1 099	1 060	1 290	1 362	1 287
LPG	\$m	804	1 002	293	217	254	237	288	274
Refinery products	\$m	844	1 195	258	318	418	201	342	278
Salt	\$m	226	229	52	54	58	65	54	63
Silver, refined	\$m	161	197	43	46	42	65	48	56
Tin e	\$m	8	12	7	2	0	2	2	5
Titanium									
Ilmenite concentrate	\$m	63	76	19	22	2	33	31	34
Leucoxene concentrate	\$m	25	25	8	8	2	6	11	7
Rutile concentrate	\$m	114	138	35	33	34	36	56	66
Synthetic rutile s	\$m	306	321	89	80	85	67	97	91
Titanium dioxide pigment	\$m	422	441	100	116	104	121	108	97
Uranium oxide (U ₃ O ₈)	\$m	475	546	154	178	99	115	125	194
Zinc e	\$m	1 466	2 540	357	570	610	1 004	946	1 182
Zircon concentrate	\$m	319	398	92	95	107	104	112	123
Other mineral resources f	\$m	3 700	5 212	764	1 136	1 272	2 039	1 046	1 288
Total mineral resources g	\$m	68 510	90 864	20 588	22 661	21 977	25 638	26 456	27 058
Total merchandise	\$m	127 867	154 425	36 309	39 041	36 738	42 337	43 069	43 565
Total goods and services	\$m	167 562	196 325	46 576	49 505	47 455	52 789	54 176	55 097

a Includes aluminium hydroxide. **b** Metallic content of all ores, concentrates, intermediate products (where applicable) and refined metal. **c** Unsorted and sorted. **d** Includes metal content of ores and concentrates, intermediate products and nickel metal. **e** Value of all ores, concentrates, intermediate products (where applicable) and refined metal. **f** Derived as the difference between total mineral resources exports, below, and the sum of the above items. **g** Total mineral resource exports on an ABARE balance of payments basis. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

4 mineral resources export unit returns **a**

	Quarter							
	2004-05		2005-06 p				2006-07	
	Mar.	June	Sep.	Dec.	Mar.	June	Sep.	Dec.
Energy minerals	164.5	210.1	231.4	241.2	242.2	239.9	236.9	216.3
Metals and other minerals	130.9	151.3	157.1	163.8	177.9	198.2	215.0	218.4
Total mineral resources	144.4	174.5	186.1	194.0	203.3	215.3	224.9	218.7

a Base: 1994-95 = 100. **p** Preliminary.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

5 imports summary

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Quantity									
Diamonds a	'000 ct	2 168	4 098	720	1 569	891	918	822	1 002
Iron ore	kt	4 648	5 026	1 365	1 453	740	1 467	1 265	1 683
Ingot steel	kt	2 116	2 191	566	564	532	530	617	530
Ferroalloys	kt	60	57	14	16	12	15	38	17
Petroleum									
Crude oil and other refinery feedstock	ML	26 054	24 416	5 741	5 989	6 680	6 006	5 922	6 277
Refinery products	ML	11 188	15 124	2 831	3 563	3 793	4 936	4 186	4 941
Phosphate rock	kt	797	655	147	239	71	198	123	146
Value									
Diamonds a	\$m	347	403	94	106	98	106	91	98
Gold b	\$m	2 462	4 800	765	732	1 358	1 946	1 163	1 320
Iron ore	\$m	145	222	59	48	48	67	72	117
Ingot steel	\$m	2 041	2 075	584	529	511	452	539	609
Ferroalloys	\$m	137	123	39	30	22	31	28	35
Petroleum									
Crude oil and other refinery feedstock	\$m	9 995	12 820	2 797	2 956	3 514	3 553	3 528	3 126
Refinery products	\$m	5 123	8 761	1 665	2 003	2 214	2 880	2 170	2 304
Phosphate rock	\$m	49	42	9	16	4	13	8	8
Silver	\$m	30	33	7	2	9	14	28	23
Other	\$m	544	637	179	120	155	183	239	203
Total	\$m	20 872	29 916	6 197	6 542	7 933	9 244	7 868	7 843

a Includes sorted and unsorted, gem and industrial diamonds, and diamond dust and powder. **b** Refined and unrefined bullion. **p** Preliminary.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

6 private mineral exploration expenditure

	Unit	2004-05	2005-06 p	Quarter					
				2004-05		2005-06 p			2006-07
				June	Sep.	Dec.	Mar.	June	Sep
Energy									
Petroleum									
Onshore	\$m	270.1	355.8	68.8	79.8	98.6	82.0	95.4	107.8
Offshore	\$m	774.6	906.1	209.7	202.2	227.9	191.6	284.4	380.8
Total	\$m	1 044.7	1 261.9	278.5	282.0	326.5	273.6	379.8	488.6
Coal	\$m	126.8	166.4	37.6	32.2	46.0	41.5	46.7	50.5
Uranium	\$m	20.7	56.1	6.8	11.9	15.8	10.1	18.3	24.7
Total energy	\$m	1 192.2	1 484.4	322.9	326.1	388.3	325.2	444.8	563.8
Metals and other minerals									
Copper	\$m	71.4	139.5	22.4	31.5	36.7	24.6	46.7	52.7
Diamonds	\$m	23.7	22.6	5.6	6.3	7.3	4.4	4.6	8.6
Gold	\$m	391.7	399.6	103.1	100.0	99.1	90.0	110.5	104.3
Iron ore	\$m	137.9	161.3	45.7	36.3	42.9	32.4	49.7	70.1
Mineral sands	\$m	27.6	29.2	7.0	8.1	8.3	5.6	7.2	7.7
Nickel, cobalt	\$m	158.6	146.0	44.1	40.0	40.7	29.3	36.0	39.8
Silver, lead and zinc	\$m	31.3	71.2	8.6	13.1	17.8	14.8	25.5	26.3
Other	\$m	38.7	48.8	9.8	12.6	13.0	11.0	12.2	9.9
Total metals and other minerals	\$m	880.9	1 018.2	246.3	247.9	265.8	212.1	292.4	319.4
Total expenditure	\$m	2 073.1	2 502.6	569.2	574.0	654.1	537.3	737.2	883.2

Sources: Australian Bureau of Statistics, Canberra; ABARE.

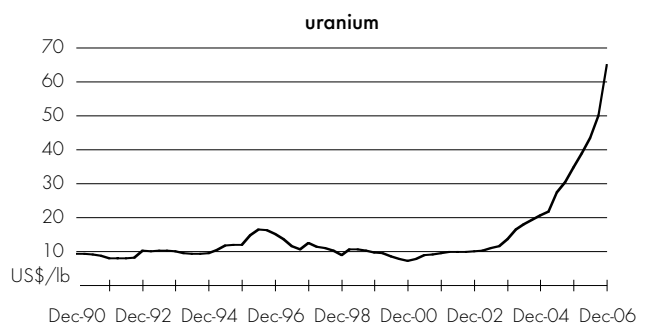
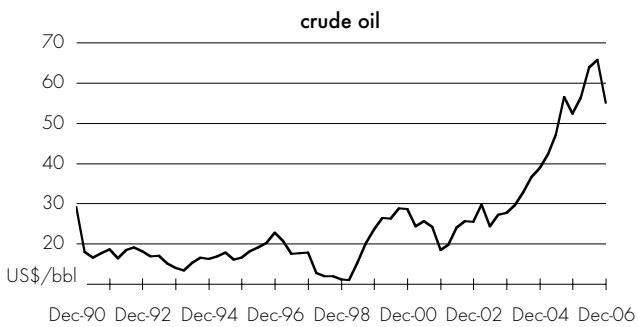
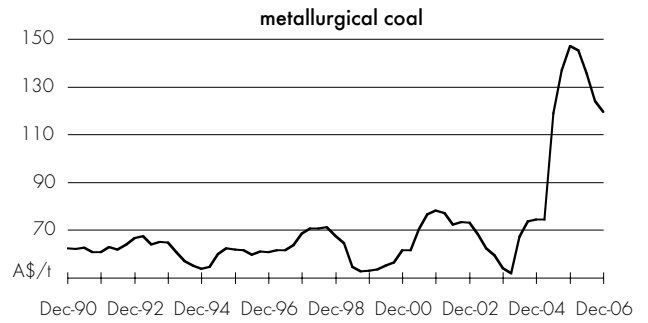
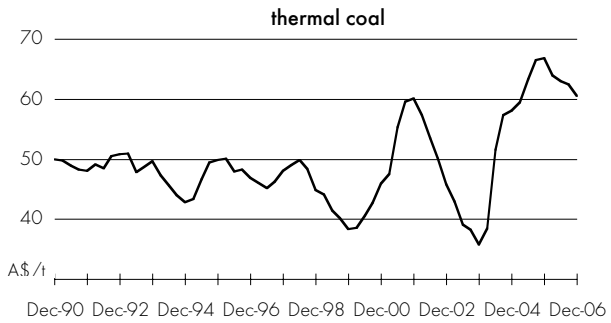
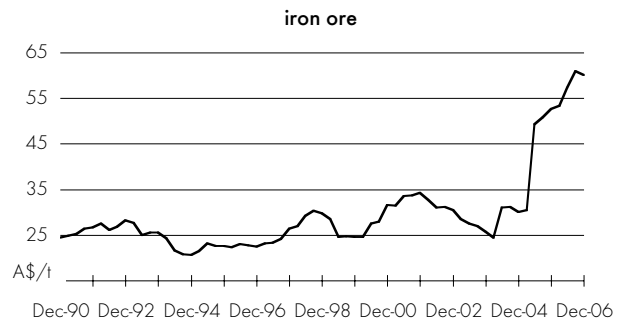
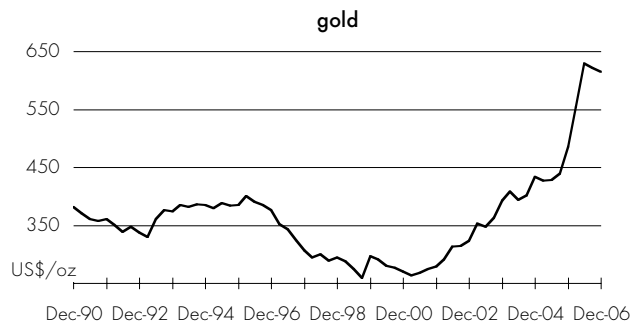
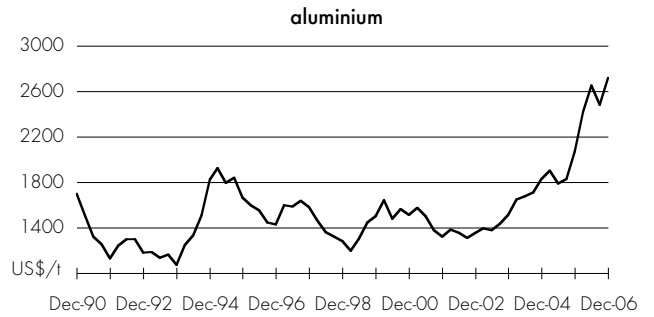
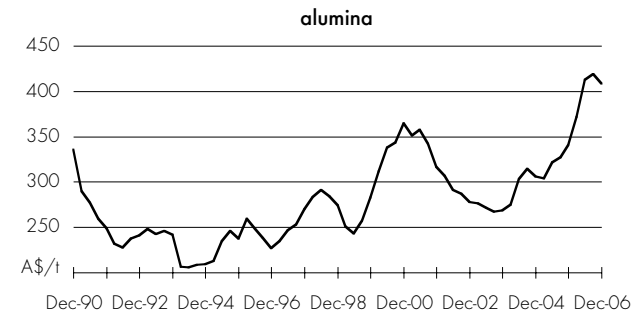
7 mineral resources prices

	alumina avg export unit value A\$/t	aluminium (high grade) LME cash US\$/t	gold London AM fix US\$/oz	iron ore a avg export unit value A\$/t	thermal coal avg export unit value A\$/t	metallurgical coal avg export unit value A\$/t	crude oil b world trade wtd ave US\$/bbl	uranium c Industry spot price US\$/lb
2003-04	278.60	1 568.40	389.28	27.09	40.98	58.26	29.33	14.90
2004-05	311.47	1 806.91	422.49	35.54	59.55	86.12	41.18	22.20
2005-06	362.90	2 243.62	526.95	53.70	65.02	141.13	57.25	36.79
2005								
July	332.53	1 778.79	424.75	52.31	67.36	136.18	53.09	29.50
August	318.42	1 867.84	437.77	49.95	66.98	137.59	57.63	30.20
September	331.45	1 839.91	455.94	50.33	65.26	136.95	58.77	31.25
October	322.42	1 928.71	470.11	51.83	66.23	144.47	54.21	33.25
November	336.20	2 050.59	476.67	52.76	67.28	150.50	51.11	34.50
December	362.67	2 248.45	509.42	53.45	66.88	146.16	51.68	36.25
2006								
January	362.06	2 377.10	549.43	52.18	62.94	142.91	56.26	37.50
February	372.59	2 455.33	555.52	53.27	64.15	143.35	56.24	38.50
March	380.20	2 429.13	557.22	54.36	64.80	148.95	56.33	40.50
April	408.16	2 621.58	611.85	55.72	63.12	140.42	63.19	41.50
May	402.30	2 861.48	676.77	54.63	62.93	129.51	64.98	43.00
June	429.34	2 477.34	597.90	61.20	62.93	137.00	63.45	45.50
July	416.22	2 512.71	633.09	61.42	62.66	127.13	67.76	47.50
August	425.52	2 459.93	631.56	60.34	62.46	122.69	68.89	48.50
September	414.47	2 472.88	600.15	60.87	61.99	122.02	60.45	54.00
October	423.93	2 654.59	586.65	60.82	61.44	121.24	54.20	60.00
November	414.56	2 702.80	626.83	60.57	60.44	118.87	53.89	63.00
December	383.11	2 813.08	629.51	59.00	59.46	118.41	56.89	72.00
	copper (high grade) LME cash US\$/t	lead LME cash US\$/t	zinc (high grade) LME cash US\$/t	silver d London fix US\$/troy oz	nickel LME cash US\$/t	ilmenite e avg export unit value A\$/t	rutile f avg export unit value A\$/t	zircon g avg export unit value A\$/t
2003-04	2 267.35	700.06	961.97	579.25	12 263.77	104.56	647.39	585.76
2004-05	3 151.00	964.08	1 170.95	694.94	14 957.03	99.29	717.20	746.27
2005-06	5 062.00	1 061.35	2 117.81	927.82	15 487.81	105.92	816.59	908.63
2005								
July	3 614.21	854.48	1 194.43	701.45	14 580.71	99.13	882.58	1 034.51
August	3 797.75	887.02	1 298.39	704.19	14 892.73	118.62	855.91	1 027.37
September	3 857.84	933.07	1 397.52	715.36	14 228.18	88.47	856.44	1 040.96
October	4 059.76	1 004.76	1 488.38	767.05	12 402.86	127.15	879.83	1 116.37
November	4 269.34	1 018.41	1 610.93	787.25	12 115.68	87.21	903.10	1 139.31
December	4 577.48	1 119.30	1 822.08	865.28	13 438.25	106.65	878.91	994.23
2006								
January	4 733.02	1 255.10	2 089.55	915.38	14 545.24	na	894.56	942.58
February	4 982.40	1 277.05	2 219.38	953.49	14 978.75	107.00	889.21	1 058.88
March	5 102.85	1 192.09	2 416.91	1 038.38	14 897.39	109.76	916.52	1 192.98
April	6 387.78	1 170.42	3 084.78	1 261.49	17 942.22	98.90	967.92	1 165.99
May	8 045.86	1 166.86	3 565.69	1 344.86	21 077.14	133.50	932.34	1 048.07
June	7 197.61	963.86	3 225.68	1 079.64	20 754.55	108.35	902.54	1 130.34
July	7 712.10	1 052.38	3 339.86	1 123.24	26 586.19	122.56	903.88	1 140.23
August	7 695.66	1 174.14	3 347.30	1 217.77	30 707.50	102.25	917.18	1 143.75
September	7 602.36	1 332.86	3 403.02	1 167.69	30 130.71	115.71	897.06	1 110.04
October	7 500.39	1 531.14	3 822.95	1 155.86	32 702.95	116.41	889.23	1 102.17
November	7 029.14	1 624.52	4 382.23	1 293.11	32 113.86	112.34	871.69	1 158.22
December	6 691.78	1 730.00	4 415.14	1 336.05	34 585.28	91.33	848.37	1 208.13

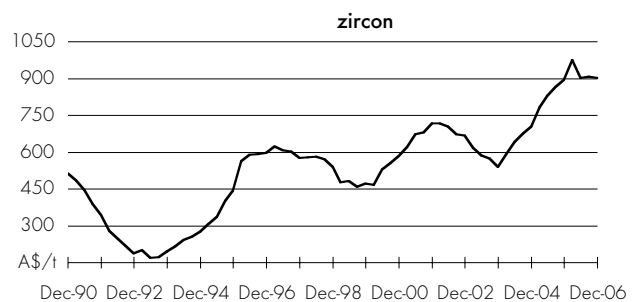
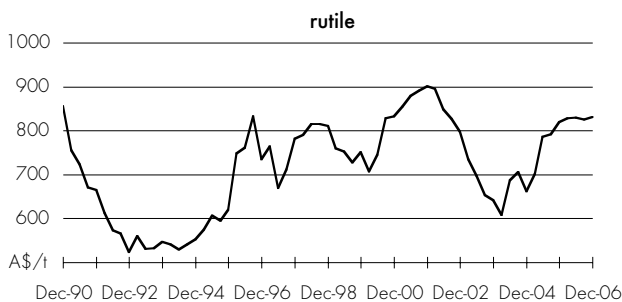
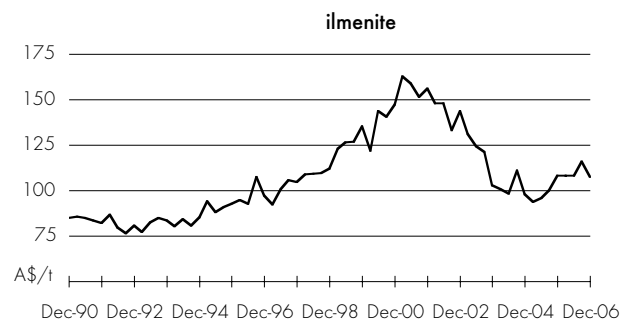
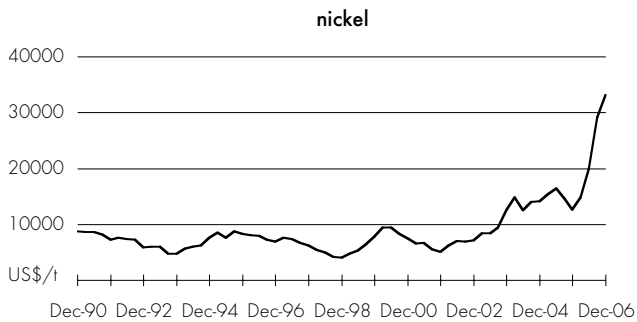
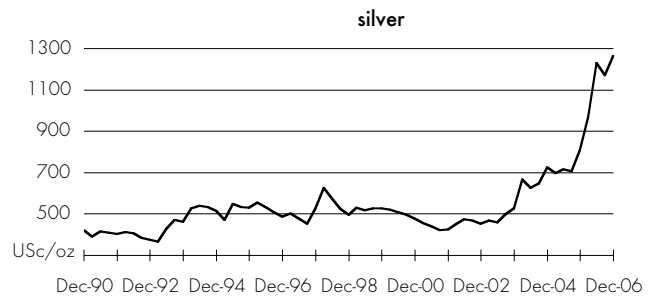
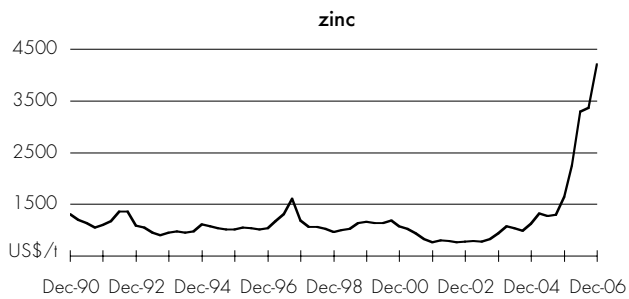
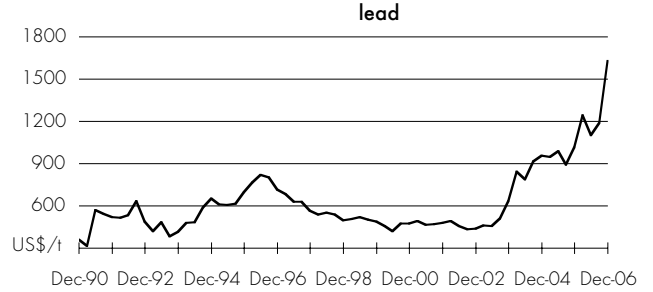
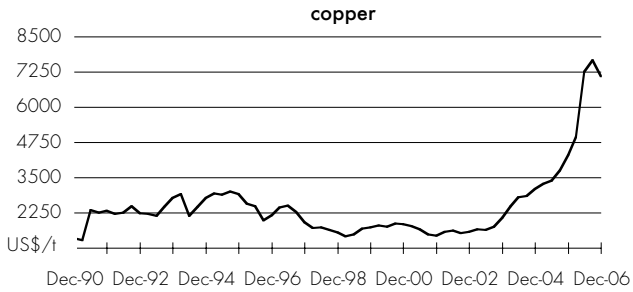
a Lump and fines. **b** US Department of Energy, *Energy Information Administration*. **c** Average of weekly restricted spot price published by The Ux Consulting Company. **d** London fix rate from May 2001; Handy and Harman, commercial bar, minimum 99.9 per cent prior to May 2001. **e** Bulk grade only after January 1992. **f** Bagged only after August 1999. **g** Based on all grades, bagged only from September 1999.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; London Bullion Market Association; The Ux Consulting Company; US Department of Energy; ABARE.

mineral resources prices, ended december quarter 2006



mineral resources prices, ended december quarter 2006



Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; London Bullion Market Association; The Ux Consulting Company; US Department of Energy, Energy Information Administration ; ABARE

8 aluminium

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Mine									
Bauxite									
Queensland	kt	13 770	16 158	3 815	4 598	3 890	3 855	4 085	4 487
Western Australia	kt	38 070	39 284	9 653	9 833	9 583	10 215	10 738	10 578
Northern Territory	kt	5 808	5 432	1 380	1 590	1 163	1 300	1 162	1 538
Australia	kt	57 648	60 874	14 848	16 021	14 636	15 370	15 986	16 603
Alumina content	kt	21 251	22 728	5 520	6 103	5 437	5 669	5 873	6 240
Smelter and refinery									
Alumina	kt	17 161	17 826	4 433	4 470	4 432	4 492	4 588	4 768
Aluminium (ingot metal)	kt	1 890	1 912	485	482	469	476	493	494
Exports									
Quantity									
Bauxite a	kt	4 900	5 639	1 401	1 524	1 253	1 462	1 363	1 437
Alumina bc	kt	14 073	14 499	3 470	3 832	3 575	3 622	3 698	4 059
Aluminium (ingot metal)									
Chinese Taipei	kt	170	187	42	45	48	51	43	42
Indonesia	kt	67	93	24	25	24	20	19	21
Japan	kt	552	542	154	151	110	128	186	154
Korea, Rep. of	kt	207	240	53	61	62	64	55	52
Malaysia	kt	74	87	22	23	21	21	18	22
Thailand	kt	162	192	46	46	52	48	45	52
Other	kt	281	276	70	72	65	69	66	65
Total	kt	1 512	1 617	411	423	382	400	434	408
Value									
Bauxite a	\$m	123	127	29	32	30	35	30	39
Alumina bc	\$m	4 383	5 262	1 135	1 304	1 329	1 494	1 550	1 657
Aluminium (ingot metal)	\$m	3 726	4 788	1 003	1 162	1 226	1 397	1 456	1 369
Imports									
Quantity									
Bauxite	kt	10	11	2	3	2	5	1	1
Alumina b	kt	1	1	0	0	0	0	0	0
Aluminium (ingot metal)	kt	6	6	1	2	2	1	1	1
Value									
Bauxite	\$m	2	3	0	1	1	1	0	0
Alumina b	\$m	1	2	0	0	0	0	0	0
Aluminium (ingot metal)	\$m	17	20	4	4	7	5	3	3
Prices									
Alumina d	A\$/t	311	363	327	340	372	412	419	408
Aluminium									
LME cash e	US\$/t	1 807	2 244	1 830	2 072	2 420	2 652	2 482	2 718
Australia d	A\$/t	2 464	2 962	2 440	2 746	3 208	3 490	3 356	3 357

a Bauxite export quantities are not available prior to September quarter 2004. Bauxite export values up to and including June quarter 2004 are ABARE estimates. **b** Includes aluminium hydroxide. **c** Country details confidential. **d** Average export unit value. **e** High grade. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.



	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Mine									
Black coal, raw									
Underground	Mt	153.02	86.83	22.39	21.80	20.01	22.64	23.42 s	22.77 s
Opencut	Mt	534.97	311.65	79.43	79.51	73.30	79.40	78.28 s	77.98 s
New South Wales	Mt	156.31	161.25	40.40	41.67	37.69	41.50	43.50	41.05
Queensland	Mt	226.62	226.53	58.75	56.96	52.95	57.86	55.50 s	57.00 s
Western Australia a	Mt	6.22	6.30	1.58	1.58	1.58	1.58	1.58	1.58
South Australia a	Mt	3.64	3.80	0.95	0.95	0.95	0.95	0.96	0.96
Tasmania a	Mt	0.58	0.60	0.15	0.15	0.15	0.15	0.16	0.16
Australia	Mt	393.36	398.48	101.82	101.31	93.32	102.04	101.70 s	100.75 s
Black coal, salable									
Underground	Mt	123.18	66.66	17.45	16.69	15.33	17.19	17.43 s	16.57 s
Opencut	Mt	234.76	239.16	60.76	61.40	56.42	60.59	59.25 s	59.41 s
New South Wales	Mt	122.06	123.24	30.63	32.56	28.34	31.71	31.99	30.39
Queensland	Mt	172.51	171.90	44.90	42.87	40.73	43.40	42.00 s	42.90 s
Western Australia a	Mt	6.22	6.30	1.58	1.58	1.58	1.58	1.58	1.58
South Australia a	Mt	3.64	3.80	0.95	0.95	0.95	0.95	0.96	0.96
Tasmania a	Mt	0.42	0.58	0.15	0.15	0.15	0.15	0.15	0.15
Australia	Mt	304.86	305.82	78.20	78.10	71.74	77.78	76.68 s	75.98 s
Brown coal b									
Victoria s	Mt	70.60	71.24	na	na	na	na	na	na
Exports									
Quantity									
Metallurgical coal, high quality									
Brazil	Mt	3.09	3.17	1.09	0.74	0.56	0.79	0.71	0.86
China	Mt	3.73	2.22	0.44	0.68	0.93	0.17	0.50	0.49
Chinese Taipei	Mt	3.51	3.31	0.77	0.84	0.79	0.91	1.04	0.81
European Union 25	Mt	19.49	19.32	4.94	5.20	4.23	4.94	5.42	5.03
India	Mt	13.41	13.63	3.28	3.87	2.96	3.51	4.37	3.91
Japan	Mt	22.87	23.87	5.61	5.82	5.39	7.05	6.27	6.00
Korea, Rep. of	Mt	8.01	6.58	1.83	1.83	1.70	1.22	1.53	1.53
Other	Mt	6.59	5.39	1.18	1.20	1.53	1.48	1.44	1.66
Total	Mt	80.73	77.48	19.14	20.19	18.10	20.06	21.29	20.29
Metallurgical coal, other c									
Chinese Taipei	Mt	3.58	4.41	1.48	0.84	1.28	0.80	1.10	0.93
European Union 25	Mt	4.76	4.73	1.09	1.14	1.20	1.30	1.02	1.07
India	Mt	4.03	2.77	0.79	0.61	0.62	0.74	0.82	0.85
Japan	Mt	22.09	20.35	5.04	4.78	5.56	4.97	5.53	5.16
Korea, Rep. of	Mt	4.45	1.12	1.12	0.00	0.00	0.00	0.00	0.00
Other	Mt	5.29	9.62	1.34	2.86	2.85	2.58	3.00	3.04
Total	Mt	44.19	42.99	10.86	10.23	11.50	10.40	11.48	11.06
Total coking coal	Mt	124.92	120.48	29.99	30.42	29.60	30.46	32.77	31.34
Thermal coal									
Chinese Taipei	Mt	14.33	13.21	3.27	3.05	3.32	3.57	3.72	4.11
European Union 25	Mt	3.48	2.32	0.84	0.07	0.59	0.81	0.60	1.14
Hong Kong, China	Mt	0.37	0.08	0.00	0.00	0.00	0.08	0.01	0.00
Japan	Mt	57.28	59.33	15.13	15.68	14.19	14.33	14.24	14.32
Korea, Rep. of	Mt	17.95	20.24	5.62	4.61	4.75	5.27	4.00	3.62
Other	Mt	12.99	15.66	3.78	2.72	3.94	5.23	4.76	5.04
Total	Mt	106.40	110.82	28.64	26.12	26.78	29.29	27.34	28.24

continued

 coal *continued*

	Unit	2004-05	2005-06 ^p	Quarter					
				2005-06 ^p				2006-07 ^p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Exports									
Quantity									
Other coal	Mt	1.02	1.17	0.31	0.34	0.31	0.20	0.35	0.28
Coke ^d	Mt	na	na	na	na	na	na	na	na
Value									
Metallurgical coal									
High quality	\$m	7 692	12 203	2 907	3 302	2 964	3 031	3 021	2 810
Other quality	\$m	3 067	4 800	1 199	1 170	1 331	1 100	1 042	936
Total metallurgical coal	\$m	10 758	17 003	4 106	4 472	4 295	4 131	4 063	3 746
Thermal coal									
Other coal	\$m	6 336	7 206	1 905	1 743	1 713	1 845	1 705	1 708
Other coal	\$m	50	80	16	20	23	20	23	15
Total coal	\$m	17 145	24 290	6 027	6 235	6 031	5 996	5 791	5 468
Coke	\$m	90	59	4	5	25	25	14	21
Imports									
Quantity									
Coke	Mt	0.02	0.05	0.00	0.01	0.02	0.02	0.01	0.13
Value									
Coke	\$m	0	4	0	1	1	2	2	2
Prices ^e									
Metallurgical coal									
High quality	A\$/t	95.28	157.49	151.89	163.52	163.78	151.10	141.91	138.52
Other	A\$/t	69.40	111.65	110.44	114.34	115.71	105.77	90.76	84.61
Thermal coal									
	A\$/t	59.55	65.02	66.52	66.75	63.95	63.00	62.38	60.47

^a Quarterly data derived from annual ABARE estimates. ^b Quarterly data not available. ^c Country details confidential for various time periods for Brazil, Chinese Taipei, Dem. Peoples Rep. of Korea, Italy, Pakistan and Republic of Korea - commencing from October 1996. ^d Quantity details not available from August 2003. ^e Average export unit value

^p Preliminary. ^s ABARE estimate. ^{na} Not available.

Sources: Australian Bureau of Statistics, Canberra; Coal Services Pty Limited; Queensland Government, Department of Natural Resources and Mines; ABARE.

10 copper

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Mine s									
Copper ore and concentrate	kt	2 672	2 826	677	698	713	737	756	763
Copper content of all minerals produced									
New South Wales a	kt	170	204	47	52	52	53	52	53
Queensland a	kt	408	398	106	108	89	95	89	95
Western Australia a	kt	61	93	24	25	21	22	31	24
South Australia	kt	231	204	49	54	47	55	42	40
Tasmania	kt	29	32	8	8	8	8	8	7
Australia a	kt	899	931	233	248	218	233	222	219
Smelter and refinery									
Blister copper (primary) b	kt	434	404	106	100	99	100	86	92
Refined copper (primary) s	kt	479	461	121	115	113	113	98	105
Exports									
Quantity									
Copper concentrate									
China c	kt	397	581	67	219	139	157	114	135
India	kt	436	494	147	109	156	82	136	72
Japan	kt	353	391	100	137	66	88	95	125
Korea, Rep. of	kt	78	68	10	16	31	12	37	15
Other	kt	61	100	22	46	10	22	51	36
Total	kt	1 326	1 635	346	528	402	360	433	382
Refined copper									
Chinese Taipei	kt	88	76	17	11	27	21	8	28
Indonesia	kt	35	30	9	12	4	5	3	7
Japan	kt	2	6	1	2	1	2	1	0
Singapore	kt	1	7	4	1	0	3	1	0
Thailand	kt	51	65	16	19	17	13	12	12
Other	kt	145	130	28	34	30	38	27	28
Total	kt	322	314	76	79	79	80	53	74
Copper content of all primary materials exported ds	kt	701	790	181	235	194	181	174	181
Value									
Copper concentrate	\$m	1 750	3 492	575	969	900	1 048	1 148	1 074
Refined copper	\$m	1 332	2 161	380	463	546	772	539	698
Total	\$m	3 082	5 653	955	1 432	1 446	1 820	1 687	1 772
Prices e									
LME cash	US\$/t	3 151	5 062	3 759	4 297	4 943	7 251	7 670	7 098
Australia	A\$/t	4 195	6 842	4 974	5 793	6 769	9 832	10 150	9 263

a Includes copper cathode and copper precipitate. b Copper content. c Excludes Hong Kong. d Copper content of all ores and concentrates, slags, residues, intermediate products, refined copper, copper powder and flakes. e Based on LME cash, midday, high grade, 25 tonne warrants. p Preliminary. s ABARE estimate.
Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.

11 diamonds and other gemstones

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Diamonds									
Northern Territory	'000 ct	0	14	5	7	0	2	4	5
Western Australia	'000 ct	32 471	25 339	6 043	6 516	5 244	7 537	8 389	8 127
Australia	'000 ct	32 471	25 354	6 048	6 523	5 244	7 539	8 393	8 132
Exports									
Quantity									
Diamonds									
Unsorted s	'000 ct	32 395	25 226	6 020	6 474	5 222	7 510	8 372	8 116
Sorted									
Gem	'000 ct	72	126	28	49	21	28	22	16
Industrial a	'000 ct	4	2	0	0	1	0	0	0
Total s	'000 ct	32 471	25 354	6 048	6 523	5 244	7 539	8 394	8 132
Value									
Diamonds									
Unsorted s	\$m	539	375	88	96	69	122	141	140
Sorted									
Gem	\$m	119	151	36	39	40	35	35	31
Industrial a	\$m	0	0	0	0	0	0	0	0
Total s	\$m	658	526	125	135	109	157	176	172
Opals									
Rough	\$m	14	13	2	2	6	3	4	3
Cut and polished	\$m	40	37	11	7	13	7	9	6
Total	\$m	54	50	12	9	19	10	13	8
Sapphires									
Rough	\$m	0	1	1	0	0	0	0	0
Total	\$m	0	1	1	0	0	0	0	0
Other gemstones b	\$m	7	8	4	2	2	1	1	1
Total gemstones	\$m	61	59	17	11	20	11	14	9
Imports									
Quantity									
Diamonds									
Unsorted	'000 ct	1	1	0	0	0	0	0	0
Sorted									
Gem	'000 ct	376	1 641	148	1 314	84	95	88	116
Industrial a	'000 ct	16	126	50	49	20	8	15	71
Dust and powder	'000 ct	1 775	2 330	523	205	786	816	719	815
Value									
Diamonds									
Unsorted	\$m	1	1	0	0	0	0	0	0
Sorted									
Gem	\$m	342	398	93	105	96	104	90	96
Industrial a	\$m	1	2	0	0	1	1	1	1
Dust and powder	\$m	2	3	1	0	1	1	1	1
Total	\$m	347	403	94	106	98	106	91	98

a Excludes dust, powder and unsorted diamonds. b Includes cut and polished sapphires from 1 July 2000. p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE; Department of Minerals and Energy, Western Australia; Department of Minerals and Energy, Northern Territory.

12 gold

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Mine s									
Gold content of all minerals produced									
New South Wales	t	29	29	7	8	6	7	7	8
Victoria	t	4	6	2	2	2	1	1	2
Queensland	t	24	22	6	6	5	5	6	5
Western Australia	t	173	165	42	43	40	41	41	41
South Australia	t	5	7	2	2	2	2	2	1
Tasmania	t	10	7	2	2	2	1	1	1
Northern Territory	t	21	14	4	3	3	3	3	4
Australia	t	266	250	64	66	60	60	62	62
Refinery									
Primary									
Australian origin	t	227	209	53	55	51	49	51	54
Overseas origin	t	76	66	19	16	18	13	14	16
Secondary									
Australian origin	t	5	7	2	1	1	1	2	1
Overseas origin	t	38	99	7	16	29	47	16	15
Total	t	345	380	82	88	99	110	83	87
Exports									
Quantity									
Refined and unrefined bullion									
China	t	5	1	1	0	0	0	0	0
Hong Kong, China	t	1	1	1	0	0	0	0	0
India	t	155	127	50	21	25	30	43	42
Japan	t	8	18	4	10	1	4	2	6
Korea, Rep. of	t	13	5	1	2	1	1	1	1
Malaysia	t	4	0	0	0	0	0	0	0
United Arab Emirates	t	0	3	0	0	1	2	0	5
Singapore	t	13	13	4	4	3	3	5	5
Switzerland	t	0	3	0	1	2	0	0	6
Thailand	t	55	33	12	9	6	6	7	3
United Kingdom	t	44	101	3	26	30	41	22	21
Other	t	12	10	4	1	0	6	13	5
Total	t	309	315	79	73	70	93	93	93
Value									
Refined	\$m	5 523	7 089	1 445	1 541	1 666	2 436	2 412	2 351
Imports									
Value									
Refined and unrefined bullion	\$m	2 462	4 800	765	732	1 358	1 946	1 163	1 320
Prices									
London AM fix	US\$/oz	422	527	439	485	554	629	622	614
Australia	A\$/oz	562	707	579	654	753	843	822	799

p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Bullion Market Association; ABARE.

13 iron

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Iron ore and concentrate a									
Western Australia s	kt	246 260	258 394	64 741	65 844	59 193	68 617	70 835	70 853
South Australia	kt	3 484	3 490	873	873	873	873	1 078	1 150
Tasmania	kt	2 174	1 931	519	503	504	405	175	537
Australia s	kt	251 918	263 815	66 133	67 220	60 569	69 894	72 088	72 540
Iron content s	kt	156 370	163 850	41 113	41 712	37 645	43 379	44 725	45 184
Iron and steel									
Iron and steel bs	kt	7 395	7 866	2 030	1 926	1 915	1 995	2 021	2 006
Exports									
Quantity									
Iron ore and pellets									
Pellets, sinters and briquettes	kt	1 239	1 083	219	311	333	219	75	113
Fines	kt	158 122	168 414	40 757	45 261	38 358	44 039	45 015	49 205
Lump and run of mine	kt	69 095	69 884	17 879	19 086	15 432	17 486	19 169	18 909
Total iron ore and pellets									
China c	kt	99 635	123 489	29 374	34 685	27 874	31 556	32 425	36 970
Chinese Taipei	kt	9 457	8 880	2 440	1 919	2 058	2 464	2 520	2 462
European Union 25	kt	12 348	9 384	2 664	2 281	2 139	2 300	2 027	2 137
Japan	kt	80 183	72 313	17 747	19 273	15 918	19 376	19 560	19 281
Korea, Rep. of	kt	25 626	24 705	6 435	6 397	5 929	5 945	7 540	7 119
Other	kt	1 208	610	197	103	206	104	187	256
Total	kt	228 456	239 380	58 856	64 657	54 123	61 744	64 259	68 226
Iron content	kt	142 196	148 882	36 630	40 223	33 653	38 377	39 969	42 381
Steel									
Iron and steel	kt	2 338	2 428	570	570	620	668	633	674
Scrap	kt	1 009	1 876	229	927	301	420	223	458
Value									
Iron ore and pellets									
Pellets, sinters and briquettes	\$m	73	87	18	22	27	20	1	6
Fines	\$m	5 060	8 269	1 892	2 186	1 872	2 320	2 516	2 733
Lump and run of mine	\$m	2 987	4 499	1 091	1 205	996	1 206	1 392	1 362
Total	\$m	8 120	12 854	3 001	3 413	2 895	3 546	3 908	4 102
Steel									
Iron and steel	\$m	2 031	1 674	403	410	414	446	421	447
Scrap	\$m	402	467	83	111	108	166	105	177
Total	\$m	2 434	2 141	486	521	522	612	526	624
Imports									
Quantity									
Iron ore d	kt	4 648	5 026	1 365	1 453	740	1 467	1 265	1 683
Iron and steel	kt	2 116	2 191	566	564	532	530	617	530
Ferroalloys	kt	60	57	14	16	12	15	38	17
Value									
Iron ore d	\$m	145	222	59	48	48	67	72	117
Iron and steel	\$m	2 041	2 075	584	529	511	452	539	609
Ferroalloys	\$m	137	123	39	30	22	31	28	35
Total	\$m	2 323	2 420	682	607	582	550	639	761
Prices									
Japanese negotiated e	US\$/dlu	36.57	62.72	62.72	62.72	62.72	74.63	74.63	74.63

a For use in iron and steel making; includes pellets for Tasmania. **b** Includes recovery from scrap. **c** Excludes Hong Kong. **d** Includes limonite ore used in the production of refined nickel products. **e** Indicative price: Australian hematite fines to Japan (fob), per dry long tonne unit, for Japanese fiscal year commencing 1 April. **p** Preliminary. **s** ABARE estimate. Sources: Australian Bureau of Statistics, Canberra; ABARE.

14 lead

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Mine s									
Lead ore and concentrates	kt	997	1 063	293	281	251	238	235	212
Lead content of all minerals produced									
New South Wales	kt	103	109	35	27	21	26	28	27
Queensland	kt	500	531	150	141	124	116	106	85
Western Australia	kt	12	62	10	17	19	17	19	24
Tasmania	kt	33	28	6	7	8	6	7	7
Northern Territory	kt	34	31	9	8	8	6	15	18
Australia	kt	682	761	211	201	180	170	175	161
Smelter and refinery									
Refined lead (primary) b	kt	234	234	49	62	60	63	24	59
Domestic despatches									
Refined lead	kt	33	28	8	7	7	7	8	5
Exports									
Quantity									
Lead concentrate									
China	kt	113	249	69	85	45	49	46	61
European Union 25	kt	59	58	11	16	11	21	11	16
Japan	kt	43	64	16	11	16	21	16	10
Korea, Rep. of	kt	171	132	16	55	21	39	21	34
Other	kt	30	0	0	0	0	0	9	5
Total	kt	417	502	112	167	93	130	103	126
Lead bullion c									
United Kingdom	kt	164	140	38	55	28	20	37	36
Total	kt	164	140	38	55	28	20	37	36
Refined lead									
Chinese Taipei	kt	7	9	1	3	4	2	0	3
India	kt	30	33	6	10	7	10	9	10
Indonesia	kt	11	13	3	3	3	4	3	2
Korea, Rep. of	kt	35	24	2	6	7	8	8	12
Thailand	kt	19	29	7	7	8	7	2	3
Other	kt	141	135	37	35	28	34	21	25
Total	kt	243	244	57	66	56	65	43	54
Lead content of all primary materials exported ds	kt	782	756	179	243	154	180	156	180
Value									
Lead concentrate	\$m	490	711	127	228	149	207	152	188
Lead bullion	\$m	246	235	60	77	54	44	79	82
Refined lead	\$m	305	350	70	88	88	104	62	112
Total	\$m	1 041	1 296	257	394	291	354	294	381
Prices									
LME cash e	US\$/t	964	1 061	892	1 012	1 241	1 100	1 186	1 629
Australia f	A\$/t	1 534	1 775	1 534	1 654	1 976	1 937	1 759	2 311

a Metallic content. b Includes lead content of lead alloys from primary sources. c Includes a substantial precious metal content, mainly silver. d Lead content of all ores, concentrates, slags, residues, bullion, and refined lead. e Based on LME cash, midday, standard grade, minimum 25 tonne warrants. f Pasmenco Metals, 99.97-99.99 per cent, fob/for Port Pirie.

p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.

15 manganese

	Unit	2004-05	2005-06 ^p	Quarter					
				2005-06 ^p				2006-07 ^p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Manganese ore and concentrate									
Western Australia ^s	kt	607	1 056	214	233	239	370	299	272
Northern Territory	kt	2 956	3 025	821	749	694	761	955	966
Australia ^s	kt	3 563	4 081	1 035	982	933	1 131	1 254	1 238
Manganese content ^s	kt	1 710	1 959	497	471	448	543	602	594
Exports ^a									
Quantity									
Manganese ore and concentrate	kt	3 128	3 215	466	854	640	1 255	1 086	1 221
Value									
Manganese ore and concentrate	\$m	473	424	73	125	83	143	113	124
Prices									
Japanese negotiated ^b	US\$/mtu	2.45	3.98	3.98	3.98	3.98	3.54	3.54	3.54
	A\$/t	156.32	256.19	251.83	257.18	259.41	227.94	224.56	220.85

^a Quarterly data derived from annual ABARE estimates to June quarter 2004. ABS data from September quarter 2004. ^b Indicative price: high grade ore (48 per cent Mn) to Japan for Japanese fiscal year commencing 1 April. ^p Preliminary. ^s ABARE estimate.
Sources: Australian Bureau of Statistics, Canberra; ABARE.

16 nickel

	Unit	2004-05	2005-06 ^p	Quarter					
				2005-06 ^p				2006-07 ^p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production as Mine									
Nickel content									
Western Australia	kt	192	183	46	52	41	44	44	50
Australia	kt	192	183	46	52	41	44	44	50
Smelter and refinery									
Intermediate nickel	kt	115	99	27	28	20	24	24	27
Refined nickel, class 1 ^b	kt	116	104	27	29	24	24	29	30
Refined nickel, class 2 ^c	kt	10	7	2	2	2	1	2	2
Exports ^s									
Quantity									
Nickel ^d	kt	218	202	53	54	48	47	51	57
Value									
Ores and concentrates	\$m	750	856	199	176	211	270	330	461
Intermediate products ^e	\$m	525	427	112	101	86	129	187	224
Refined nickel, class 1 ^b	\$m	2 302	2 119	524	489	475	631	1 098	1 279
Refined nickel, class 2 ^c	\$m	154	113	29	25	33	27	60	70
Total	\$m	3 731	3 515	864	790	805	1 056	1 676	2 034
Imports									
Value									
Primary nickel products ^f	\$m	106	128	31	35	13	49	41	77
Prices									
LME cash ^g	US\$/t	14 957	15 488	14 567	12 652	14 807	19 925	29 141	33 134
	A\$/t	19 896	20 778	19 211	17 040	20 115	26 759	38 558	43 116

^a Details of production of nickel metal, matte, oxide, sinter and nickel-cobalt sulphide are not available. ^b Products with a nickel content of 99 per cent or more. Includes electrolytic nickel, pellets, briquettes and powder. ^c Products with a nickel content of less than 99.8 per cent. Includes ferronickel, nickel oxides and oxide sinter. ^d Includes metal content of ores and concentrates, intermediate products and nickel metal. ^e Includes matte and speiss for further refining. ^f Includes matte, sinter and intermediate products; ferronickel, unwrought nickel metal and alloys and scrap. ^g Average cash settlement price for melting grade refined nickel. ^p Preliminary. ^s ABARE estimate.
Sources: Australian Bureau of Statistics, Canberra; International Nickel Study Group; London Metal Exchange; ABARE.

17 petroleum

	Unit	Quarter							
		2004-05	2005-06 p	2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Field									
Crude oil ^s	ML	20 259	17 246	4 913	4 753	3 660	3 921	5 763	5 686
Condensate ^s	ML	7 052	7 069	1 965	1 873	1 685	1 547	1 902	1 894
Total ^s	ML	27 311	24 315	6 877	6 626	5 345	5 467	7 665	7 580
Production rate ^s	'000 bbl/day	477	425	481	463	374	382	536	530
LPG	ML	4 628	4 722	1 300	1 158	1 056	1 208	1 293	1 143
Ethane ^a	Mm ³	407	456	115	116	104	120	128	112
Natural gas ^a	Mm ³	37 267	38 016	9 921	9 297	8 591	10 207	10 275	9 810
Refinery									
Refinery input	ML	40 334	36 895	9 146	9 646	9 427	8 677	9 340	10 394
Refinery output									
LPG	ML	995	1 125	272	285	298	270	348	385
Automotive gasoline	ML	17 913	16 528	4 202	4 176	4 090	4 059	4 412	4 529
Aviation gasoline	ML	144	119	25	28	36	31	31	33
Aviation turbine fuel	ML	5 325	5 216	1 294	1 430	1 257	1 235	1 319	1 449
Kerosine	ML	26	12	2	2	7	2	0	0
Heating oil	ML	106	102	32	11	17	41	39	12
Automotive diesel oil	ML	12 822	10 154	2 919	2 664	2 345	2 226	2 315	2 659
Industrial and marine diesel fuel	ML	22	31	8	13	4	5	5	7
Fuel oil (excl. refinery fuel)	ML	1 092	1 048	250	236	299	263	247	219
Lubricating oil basestock	ML	202	163	35	40	49	39	35	41
Bitumen	ML	1 091	831	134	268	191	237	210	459
Other products	ML	977	946	351	159	242	195	127	210
Total	ML	40 202	36 274	13 726	13 487	12 924	12 664	13 498	14 531
Sales									
LPG									
Automotive use ^b	ML	2 339	2 681	747	728	620	587	640	625
Total	ML	3 386	4 167	1 213	1 042	877	1 036	1 132	978
Automotive gasoline									
Lead replacement ^c	ML	495	15	13	2	0	0	0	0
Premium unleaded	ML	2 976	1 867	476	500	470	422	427	475
Regular unleaded	ML	16 406	15 962	4 020	4 087	3 969	3 887	4 040	4 069
Other unleaded ^d	ML	0	1 204	295	304	317	288	324	380
Total	ML	19 876	19 048	4 803	4 892	4 756	4 597	4 792	4 923
Aviation gasoline	ML	91	86	23	22	20	22	23	22
Aviation turbine fuel	ML	4 730	5 359	1 210	1 366	1 390	1 394	1 487	1 519
Kerosine	ML	12	27	4	6	8	8	6	2
Heating oil	ML	34	25	9	3	3	9	5	1
Automotive diesel oil	ML	15 185	15 804	3 791	4 097	3 838	4 077	4 131	4 419
Industrial and marine diesel fuel	ML	15	19	5	4	5	5	5	5
Fuel oil	ML	1 595	1 586	369	438	403	376	373	371
Lubricating oil and greases	ML	470	451	117	113	105	115	107	108
Bitumen	ML	812	805	166	200	236	203	162	240
Other products	ML	939	973	268	241	233	230	230	233
Total	ML	47 145	48 352	11 979	12 425	11 876	12 072	12 452	12 821

continued

17 petroleum *continued*

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Exports									
Quantity									
Crude oil and other refinery feedstock									
China	ML	732	404	98	104	104	98	100	104
Chinese Taipei	ML	916	346	114	224	8	0	105	215
Japan	ML	1 927	2 201	639	557	618	387	466	476
Korea, Rep. of	ML	2 787	2 725	967	762	588	408	647	1 282
New Zealand	ML	1 425	465	205	127	62	71	340	69
Singapore	ML	2 861	3 110	961	965	627	557	1 297	1 088
United States	ML	1 154	297	100	197	0	0	92	99
Other	ML	3 929	3 478	1 081	671	862	865	1 015	945
Total	ML	15 731	13 026	4 166	3 607	2 867	2 386	4 063	4 276
LNG	Mt	10.59	12.50	2.93	2.98	2.99	3.60	3.45	3.90
LPG	ML	2 844	2 800	985	556	602	656	731	811
Refinery products									
Automotive gasoline	ML	774	714	149	264	178	122	243	227
Aviation turbine fuel	ML	240	127	37	44	46	0	27	45
Diesel fuel d	ML	367	419	101	73	240	4	87	62
Fuel oil	ML	201	490	64	119	217	89	32	90
Aviation gasoline	ML	38	85	8	21	24	32	56	10
Lubricants	ML	156	179	58	44	35	42	35	54
Other products	ML	70	69	18	17	17	16	22	15
Total	ML	1 847	2 082	435	583	758	306	502	503
Ships' and aircraft stores									
Aviation turbine fuel	ML	1 893	1 893	473	473	473	473	473	473
Fuel oil	ML	297	259	66	66	64	64	64	63
Other products	ML	16	11	5	1	2	3	3	2
Total	ML	2 207	2 163	544	540	540	540	540	539
Value									
Crude oil and other refinery feedstock									
	\$m	6 330	6 638	2 032	1 720	1 506	1 379	2 321	2 103
LNG	\$m	3 199	4 416	966	1 099	1 060	1 290	1 362	1 287
LPG	\$m	804	1 002	293	217	254	237	288	274
Refinery products									
Automotive gasoline	\$m	339	419	92	145	99	83	150	117
Aviation turbine fuel	\$m	108	80	24	26	30	0	17	28
Diesel fuel d	\$m	166	238	59	39	136	4	64	38
Fuel oil	\$m	51	215	26	50	96	42	13	35
Aviation gasoline	\$m	26	54	6	12	14	21	48	8
Lubricants	\$m	112	139	40	32	30	36	32	38
Other products	\$m	41	52	12	13	12	14	17	14
Total	\$m	844	1 195	258	318	418	201	342	278
Total	\$m	11 176	13 251	3 549	3 355	3 239	3 108	4 314	3 942
Ships' and aircraft stores									
Aviation turbine fuel	\$m	858	1 206	297	268	313	328	326	276
Fuel oil	\$m	82	107	24	27	28	29	29	27
Other products	\$m	11	9	4	1	1	3	3	2
Total	\$m	951	1 322	324	296	343	360	358	305

continued

17 petroleum *continued*

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Imports									
Quantity									
Crude oil and other refinery feedstock									
Indonesia	ML	3 328	3 929	1 129	1 035	783	982	552	887
Malaysia	ML	4 761	3 976	814	909	1 330	924	585	909
Middle East									
Qatar	ML	77	0	0	0	0	0	0	0
Saudi Arabia	ML	3 101	1 602	135	537	606	325	190	354
United Arab Emirates	ML	1 917	863	143	112	284	325	877	490
Other	ML	158	199	0	95	103	0	76	42
Total Middle East	ML	5 252	2 664	278	744	993	649	1 143	886
New Zealand	ML	663	638	171	105	207	156	92	99
Papua New Guinea	ML	1 717	2 386	591	564	827	404	472	509
Singapore	ML	652	829	258	186	216	168	160	285
Viet Nam	ML	6 560	6 708	1 520	1 620	1 727	1 841	2 057	1 654
Other	ML	3 122	3 286	980	826	597	882	861	1 047
Total	ML	26 054	24 416	5 741	5 989	6 680	6 006	5 922	6 277
Refined products									
LPG	ML	540	599	6	254	83	257	177	254
Automotive gasoline	ML	3 131	3 687	605	1 142	920	1 020	547	910
Aviation turbine fuel	ML	983	817	249	121	222	224	262	325
Diesel fuel d	ML	3 944	6 122	1 269	1 380	1 650	1 823	1 310	1 557
Fuel oil	ML	1 281	1 418	397	351	361	309	290	295
Lubricants	ML	327	370	118	88	70	95	99	85
Other products	ML	981	2 111	187	227	488	1 209	1 502	1 516
Total	ML	11 188	15 124	2 831	3 563	3 793	4 936	4 186	4 941
Value									
Crude oil and other refinery feedstock									
	\$m	9 995	12 820	2 797	2 956	3 514	3 553	3 528	3 126
Refined products									
LPG	\$m	143	198	3	80	30	85	66	85
Automotive gasoline	\$m	1 463	2 342	375	658	555	753	407	525
Aviation turbine fuel	\$m	483	527	153	71	141	161	191	211
Diesel fuel d	\$m	1 933	4 071	788	836	1 073	1 375	954	943
Fuel oil	\$m	364	569	140	139	146	144	123	107
Lubricants	\$m	288	418	106	97	90	124	132	122
Other products	\$m	448	637	100	122	178	237	298	310
Total	\$m	5 123	8 761	1 665	2 003	2 214	2 880	2 170	2 304
Total	\$m	15 118	21 581	4 462	4 959	5 728	6 432	5 699	5 430
Prices									
Dubai	US\$/bbl	40.72	58.30	55.92	53.45	58.48	65.35	66.40	57.63
West Texas intermediate									
	US\$/bbl	48.77	64.22	63.14	60.04	63.27	70.41	70.42	59.96
Brent	US\$/bbl	46.23	62.44	61.55	56.94	61.75	69.53	69.62	59.68
Tapis	US\$/bbl	49.15	66.72	64.72	60.84	67.49	73.77	75.43	63.32
World trade weighted average									
	US\$/bbl	41.18	57.25	56.50	52.33	56.28	63.87	65.70	54.99
	A\$/bbl	54.77	76.80	74.51	70.48	76.45	85.78	86.93	71.56

a Commercial sales plus field and plant usage. **b** This is a minimum level and includes only direct sales by the oil industry. The data do not include volumes sold to distributor etc. which are subsequently used or sold for automotive use. **c** Leaded petrol phased out as at 1 January 2002. Lead replacement petrol (LRP) introduced as at 1 January 2002. **d** Includes automotive diesel oil and industrial and marine diesel fuel. **e** Data not available from January to December 2002 due to confidentiality restrictions. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; Department of Industry, Tourism and Resources, Canberra; US Department of Energy, *Energy Information Administration*, Tokyo Commodity Exchange; ABARE.

18 petroleum production, by basin

	Crude oil ML	Condensate ML	Total crude oil and condensate		LPG (naturally occurring) ^a ML	Ethane ^a Mm ³	Natural gas ^a Mm ³
			ML	'000 bbl/day			
September quarter 2006							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Amadeus	13.8	0.0	13.8	1.0	0.0	0.0	121.8
Bonaparte	449.3	98.5 ^s	547.8 ^s	38.3 ^s	0.0	0.0	0.0
Bowen-Surat	5.3	5.6	10.9	0.8	6.2	0.0	129.6
Canning	0.6	0.0	0.6	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	100.8	0.0	100.8	7.0	0.0	0.0	539.5
North West Shelf	1 746.7 ^s	1 403.8	3 150.5 ^s	220.2 ^s	564.3	0.0	5 599.2
Other	1 895.1 ^s	44.8	1 939.9 ^s	135.6 ^s	0.0	0.0	329.6
Cooper-Eromanga							
Queensland	202.3	50.2	252.4	17.6	0.0	0.0	0.0
South Australia	241.0	71.6	312.6	21.8	168.4	72.0	1 117.5
Gippsland	908.9	226.2	1 135.1	79.3	554.1	55.8	2 304.9
Otway	0.0	0.6	0.6	0.0	0.0	0.0	42.0
Perth	199.3	0.7	200.0	14.0	0.0	0.0	87.4
Total	5 763.1 ^s	1 901.9 ^s	7 665.0 ^s	535.7 ^s	1 293.0	127.8	10 274.5
December quarter 2006 ^p							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Amadeus	12.9	0.0	12.9	0.9	0.0	0.0	133.8
Bonaparte	701.3	98.5 ^s	799.8 ^s	55.9 ^s	0.0	0.0	0.0
Bowen-Surat	5.1	5.3	10.4	0.7	5.6	0.0	163.9
Canning	0.6	0.0	0.6	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	101.0	0.0	101.0	7.1	0.0	0.0	596.0
North West Shelf	1 461.1 ^s	1 517.2	2 978.3 ^s	208.1 ^s	574.4	0.0	6 216.0
Other	1 780.5 ^s	37.0	1 817.5 ^s	127.0 ^s	0.0	0.0	344.1
Cooper-Eromanga							
Queensland	199.3	43.6	242.9	17.0	0.0	0.0	0.0
South Australia	321.1	60.6	381.8	26.7	149.2	67.8	905.0
Gippsland	889.3	130.4	1 019.7	71.3	413.6	44.2	1 339.4
Otway	0.0	0.4	0.4	0.0	0.0	0.0	21.7
Perth	213.6	0.8	214.4	15.0	0.0	0.0	87.3
Total	5 685.9 ^s	1 893.8 ^s	7 579.7 ^s	529.7 ^s	1 142.7	112.1	9 810.0
2005-06							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	11.6
Amadeus	53.4	0.0	53.4	0.9	0.0	0.0	493.8
Bonaparte	1 403.0	394.0 ^s	1 797.0 ^s	31.4 ^s	0.0	0.0	0.0
Bowen-Surat	22.9	20.2	43.1	0.8	23.4	0.0	640.8
Canning	2.4	0.0	2.4	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	389.6	0.0	389.6	6.8	0.0	0.0	1 172.1
North West Shelf	4 523.9 ^s	5 264.8	9 788.7 ^s	171.0 ^s	2 160.1	0.0	22 946.8
Other	5 854.5 ^s	202.2	6 056.6 ^s	105.8 ^s	0.0	0.0	1 430.3
Cooper-Eromanga							
Queensland	432.2	205.4	637.6	11.1	0.0	0.0	0.0
South Australia	488.4	207.7	696.1	12.2	596.6	269.5	3 734.9
Gippsland	3 680.5	769.8	4 450.4	77.8	1 941.9	186.7	7 087.4
Otway	0.0	2.8	2.8	0.0	0.0	0.0	161.1
Perth	395.4	2.2	397.6	6.9	0.0	0.0	337.6
Total	17 246.2 ^s	7 069.1 ^s	24 315.3 ^s	424.8 ^s	4 722.0	456.2	38 016.4

^a Commercial sales plus field and plant usage. ^p Preliminary. ^s ABARE estimate.
Sources: Department of Industry, Tourism and Resources, Canberra; ABARE.

19 sales of petroleum products, by state marketing area

	NSW ^a	Vic.	QLD	WA	SA	Tas.	NT	Aust.
	ML	ML	ML	ML	ML	ML	ML	ML
December quarter 2006 p								
LPG ^b								
Automotive use ^c	179	244	101	42	54	4	1	625
Total	279	347	177	77	78	15	5	978
Automotive gasoline								
Lead replacement petrol	0	0	0	0	0	0	0	0
Premium unleaded	153	100	113	59	29	17	4	475
Regular unleaded	1 265	1 040	892	435	305	100	32	4 069
Other unleaded ^d	131	88	119	24	15	2	0	380
Total	1 549	1 229	1 124	517	349	119	36	4 923
Of which sales to retailers	1 272	989	800	453	273	57	14	3 857
Aviation gasoline	4	4	6	4	1	0	2	22
Aviation turbine fuel	563	327	270	259	45	9	46	1 519
Kerosine	1	1	0	0	0	0	0	2
Heating oil	1	0	0	0	0	0	0	1
Automotive diesel oil	932	706	1 262	982	294	90	152	4 419
Of which sales to retailers	319	287	269	183	64	10	8	1 141
Industrial and marine diesel fuel	3	0	2	0	0	0	0	5
Fuel oil ^e	118	55	27	43	0	5	123	371
Lubricating oil and greases	27	23	32	15	7	2	1	108
Bitumen	58	53	85	26	12	5	1	240
Other products ^f	24	182	20	5	3	0	0	233
Total	3 557	2 928	3 006	1 929	789	244	368	12 821
2005-06								
LPG ^b								
Automotive use ^c	706	1 221	340	167	225	18	5	2 681
Total	1 131	1 610	652	320	357	73	23	4 167
Automotive gasoline								
Lead replacement petrol	1	2	3	3	7	0	0	15
Premium unleaded	610	420	438	196	112	77	14	1 867
Regular unleaded	4 941	4 129	3 546	1 642	1 192	387	124	15 962
Other unleaded ^d	480	335	263	81	46	0	0	1 204
Total	6 032	4 886	4 250	1 922	1 356	464	138	19 048
Of which sales to retailers	4 936	3 717	3 025	1 640	1 049	198	62	14 628
Aviation gasoline	15	14	26	16	5	2	8	86
Aviation turbine fuel	2 124	1 133	1 016	699	196	32	160	5 359
Kerosine	4	3	15	3	1	0	0	27
Heating oil	9	4	2	1	5	4	0	25
Automotive diesel oil	3 558	2 583	4 574	3 231	1 070	350	438	15 804
Of which sales to retailers	1 079	968	856	581	225	32	33	3 775
Industrial and marine diesel fuel	9	2	6	2	0	0	1	19
Fuel oil ^e	525	279	131	176	0	19	457	1 586
Lubricating oil and greases	115	101	126	66	29	8	6	451
Bitumen	237	156	239	99	49	20	5	805
Other products ^f	130	749	75	12	5	0	2	973
Total	13 889	11 519	11 111	6 547	3 074	974	1 238	48 352

^a Includes Australian Capital Territory. ^b Includes sales for petrochemical feedstock. ^c This is a minimum level and includes only direct sales by the oil industry. The data do not include volumes sold to distributors etc. which are subsequently used or sold for automotive use. ^d Includes proprietary brand and other blends. ^e Excludes refinery fuel. ^f Sales of LPG for petrochemical feedstock are included in LPG sales. ^p Preliminary.
Source: Department of Industry, Tourism and Resources, Canberra.

20 phosphate

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Single superphosphate as	kt	1 594	1 309	294	479	142	395	246	291
Imports									
Quantity									
Phosphate rock									
China	kt	210	86	1	60	5	19	1	0
Morocco	kt	381	405	105	154	0	147	104	127
Togo	kt	163	48	0	0	48	0	0	0
Other	kt	43	116	41	25	17	31	18	18
Total	kt	797	655	147	239	71	198	123	146
Phosphates									
Diammonium b	kt	287	202	16	33	97	56	0	0
Monammonium c	kt	926	528	118	95	217	98	50	11
High analysis d	kt	232	310	19	127	113	51	2	3
Value									
Phosphate rock	\$m	49	42	9	16	4	13	8	8
Phosphates									
Diammonium b	\$m	87	74	7	12	35	20	0	0
Monammonium c	\$m	286	190	41	34	80	35	19	4
High analysis d	\$m	50	59	3	24	20	11	2	1
Prices									
Australia e	A\$/t	16.33	16.17	16.90	14.90	18.19	14.69	15.11	17.40

a Single superphosphate manufactured from imported phosphate rock; P₂O₅ equivalent: 21 per cent. **b** P₂O₅ equivalent: 46 per cent. **c** P₂O₅ equivalent: 50 per cent. **d** P₂O₅ equivalent: 48 per cent. **e** Average import unit value. **p** Preliminary. **s** ABARE estimate.
Sources: Australian Bureau of Statistics, Canberra; ABARE.

21 salt

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Queensland s	kt	100	320	80	80	80	80	na	na
Western Australia a	kt	11 574	10 834	2 591	2 743	2 626	2 875	2 310	na
South Australia b	kt	580	604	159	160	142	142	na	na
Australia cs	kt	12 254	11 758	2 830	2 983	2 848	3 097	2 680	2 780
Exports									
Quantity									
Bulk, bagged and table	kt	12 128	10 776	2 567	2 651	2 638	2 920	2 389	2 928
Value									
Bulk, bagged and table	\$m	226	229	52	54	58	65	54	63
Prices									
Australia d	A\$/t	18.63	21.29	20.18	20.45	22.07	22.33	22.73	21.45

a Sales. **b** Six monthly reporting for South Australia. **c** Excludes Victoria. **d** Average export unit value. **p** Preliminary. **s** ABARE estimate.
Sources: Australian Bureau of Statistics, Canberra; ABARE.

22 silver

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Mine s									
Silver content of all minerals produced									
New South Wales	t	96	96	27	23	23	23	25	23
Queensland	t	1 971	1 862	516	530	444	373	315	253
Western Australia	t	67	103	22	26	32	23	17	24
South Australia	t	34	34	10	9	8	7	7	8
Tasmania	t	90	86	19	21	22	24	21	22
Northern Territory	t	44	38	11	10	9	7	9	10
Australia	t	2 303	2 218	605	619	538	456	393	340
Refinery									
Refined silver	t	722	655	163	164	145	183	141	165
Exports									
Quantity									
Refined silver bullion	t	517	482	137	124	107	114	95	109
Value									
Refined silver a	\$m	161	197	43	46	42	65	48	56
Imports									
Value									
Refined silver bullion	\$m	30	33	7	2	9	14	28	23
Prices									
World b	US\$/oz	695	928	707	807	969	1 229	1 170	1 262
Australia c	A\$/kg	306	399	299	347	420	528	496	526

a Includes refined bullion, powder, unwrought silver and semi manufactured forms. b London Bullion Market Association, fixed rate. c Pasmenco Metals, fob/fort Port Pirie. p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Bullion Market Association; ABARE.

23 tin

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Mine									
Tin content of all minerals									
New South Wales s	t	50	0	0	0	0	0	0	0
Queensland s	t	0	282	0	0	69	213	202	607
Western Australia s	t	305	590	146	166	161	117	60	49
Tasmania	t	1 700	933	866	67	0	0	0	0
Australia s	t	2 055	1 805	1 012	233	230	330	262	656
Smelter and refinery									
Refined tin (primary) s	t	445	736	175	192	206	163	106	97
Domestic despatches s									
Tin concentrate	t	408	788	195	223	214	156	80	65
Tin content	t	305	590	146	166	161	117	60	49
Exports									
Quantity									
Tin concentrate									
Malaysia	t	1 676	2 140	1 678	383	0	79	370	732
Thailand	t	0	6	0	0	6	0	0	0
Other	t	0	40	0	40	0	0	0	0
Total	t	1 676	2 186	1 678	423	6	79	370	732
Refined tin									
Malaysia	t	585	371	45	23	47	255	0	0
Other	t	11	25	10	5	4	5	1	1
Total	t	596	395	55	28	52	260	1	1
Tin content of primary materials exported bs									
	t	1 529	1 556	947	241	55	313	221	433
Value									
Tin concentrate	\$m	8	9	7	2	0	0	2	5
Refined tin	\$m	1	3	0	0	0	2	0	0
Total	\$m	8	12	7	2	0	2	2	5
Imports									
Quantity									
Refined tin	t	718	618	191	139	184	105	134	182
Value									
Refined tin	\$m	8	6	2	1	2	1	1	2
Prices									
LME c	US\$/t	8 491	7 403	7 047	6 433	7 602	8 529	8 653	10 335

a Primary and secondary. b Tin content of tin ores and concentrates and refined tin. c LME official close. p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.

24 titanium and zircon minerals

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Ilmenite concentrate									
New South Wales s	kt	0	54	0	0	27	27	43	32
Queensland s	kt	142	165	48	35	38	44	51	22
Western Australia	kt	1 851	1 965	493	462	494	516	542	529
Australia s	kt	1 993	2 184	541	497	559	588	636	584
Leucoxene concentrate									
New South Wales s	kt	0	13	0	0	0	13	10	18
Western Australia	kt	68	66	20	17	12	17	31	29
Australia s	kt	68	79	20	17	12	30	41	48
Rutile concentrate									
New South Wales s	kt	0	2	0	0	0	2	15	16
Queensland s	kt	68	70	21	14	19	16	21	8
Western Australia	kt	106	112	26	28	25	32	38	39
Northern Territory	kt	0	0	0	0	0	0	0	1
Australia s	kt	174	184	47	42	44	51	73	65
Synthetic rutile s									
Western Australia	kt	751	712	195	178	184	155	196	194
Titanium dioxide pigment s									
	kt	204	208	52	53	53	51	49	55
Zircon concentrate									
New South Wales s	kt	0	0	0	0	0	0	4	11
Queensland s	kt	49	52	17	10	13	12	15	12
Western Australia	kt	383	390	91	97	97	105	106	113
Northern Territory	kt	0	0	0	0	0	0	0	2
Australia s	kt	432	442	107	107	111	117	125	138
Exports									
Quantity									
Ilmenite concentrate a	kt	633	722	191	208	20	303	270	313
Leucoxene concentrate	kt	93	86	27	29	2	28	28	23
Rutile concentrate s	kt	158	169	44	40	41	43	67	80
Synthetic rutile s	kt	517	472	135	118	124	96	140	131
Titanium dioxide pigment	kt	175	177	41	46	41	49	44	39
Zircon concentrate s	kt	428	438	106	106	110	116	124	137
Value									
Ilmenite concentrate a	\$m	63	76	19	22	2	33	31	34
Leucoxene concentrate	\$m	25	25	8	8	2	6	11	7
Rutile concentrate s	\$m	114	138	35	33	34	36	56	66
Synthetic rutile s	\$m	306	321	89	80	85	67	97	91
Titanium dioxide pigment	\$m	422	441	100	116	104	121	108	97
Zircon concentrate s	\$m	319	398	92	95	107	104	112	123
Prices b									
Ilmenite concentrate									
Bulk	A\$/t	99	106	100	108	108	108	116	107
Leucoxene concentrate									
Bulk	A\$/t	208	226	227	252	na	204	348	257
Bagged	A\$/t	529	537	697	378	693	666	738	677
Rutile concentrate									
Bagged	A\$/t	771	897	864	885	902	933	907	867
Titanium dioxide pigment									
	A\$/t	2 412	2 486	2 438	2 505	2 507	2 490	2 473	2 454
Zircon concentrate									
All grades - bagged	A\$/t	903	1 055	1 034	1 064	1 029	1 113	1 130	1 149

a Bulk and bagged before January 1992; bulk only thereafter. b Average export unit value. p Preliminary. s ABARE estimate. na Not available.

25 uranium

	Unit	2004-05	2005-06 ^p	Quarter					
				2005-06 ^p				2006-07 ^p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Mine									
Uranium oxide (U ₃ O ₈)	t	10 964	9 974	2 924	2 922	2 486	1 642	2 127	2 715
Uranium (U content)									
South Australia	t	4 596	4 062	1 131	1 116	928	887	868	893
Northern Territory	t	4 701	4 396	1 348	1 362	1 180	505	935	1 409
Australia	t	9 297	8 458	2 479	2 478	2 108	1 392	1 804	2 302
Exports ^a									
Quantity									
Uranium oxide (U ₃ O ₈)	t	11 249	10 253	3 100	3 353	2 040	1 760	1 856	3 005
Value									
Uranium oxide (U ₃ O ₈)	\$m	475	546	154	178	99	115	125	194
Prices									
Uranium oxide (U ₃ O ₈)									
Industry spot ^b	US\$/lb	22.20	36.79	30.32	34.67	38.83	43.33	50.00	65.00
Australia ^c	A\$/kg	42.24	53.24	49.79	52.99	48.42	65.37	67.40	64.61

^a Country details not available. ^b Average of weekly restricted spot price, published by The Ux Consulting Company. ^c Average export unit value. ^p Preliminary.
Sources: Australian Bureau of Statistics, Canberra; The Ux Consulting Company; ABARE.

26 zinc

	Unit	2004-05	2005-06 p	Quarter					
				2005-06 p				2006-07 p	
				Sep.	Dec.	Mar.	June	Sep.	Dec.
Production									
Mine s									
Zinc ore and concentrates	kt	2 506	2 564	655	629	646	634	607	580
Zinc content of all minerals produced									
New South Wales	kt	205	178	54	39	42	44	42	45
Queensland	kt	848	855	221	218	205	212	203	205
Western Australia	kt	47	113	18	22	40	32	22	48
Tasmania	kt	95	89	21	22	23	23	22	20
Northern Territory	kt	157	144	42	36	36	30	34	36
Australia	kt	1 352	1 380	356	338	346	340	324	354
Smelter and refinery									
Refined zinc (primary)	kt	464	446	117	115	101	113	121	129
Domestic despatches									
Refined zinc	kt	79	78	21	18	19	21	21	25
Exports									
Quantity									
Zinc concentrates									
Belgium-Luxembourg	kt	92	10	10	0	0	0	13	13
China	kt	289	198	50	74	37	38	70	96
Germany	kt	13	30	0	15	5	10	0	32
Japan	kt	343	375	64	131	102	78	115	79
Korea, Rep. of	kt	565	504	122	152	97	134	64	104
Netherlands	kt	392	384	87	87	102	108	89	80
Spain	kt	96	120	40	31	40	9	55	93
United States	kt	26	0	0	0	0	0	0	0
Other	kt	139	201	34	68	29	70	44	43
Total	kt	1 953	1 821	406	556	412	447	450	540
Refined zinc									
Chinese Taipei	kt	51	77	21	18	18	20	16	26
Hong Kong, China	kt	144	127	35	35	23	34	37	24
Indonesia	kt	18	11	3	3	2	4	5	4
Malaysia	kt	69	32	1	24	4	3	4	3
New Zealand	kt	11	13	2	3	4	4	2	3
Thailand	kt	6	4	1	1	1	2	2	1
United States	kt	0	10	0	0	0	10	0	5
Other	kt	97	114	24	36	30	24	16	26
Total	kt	397	388	87	119	81	100	83	93
Zinc content of all primary materials exported as	kt	1 427	1 328	297	402	295	335	309	355
Value									
Zinc concentrates	\$m	852	1 542	206	335	387	614	584	738
Refined zinc	\$m	614	998	151	234	223	390	361	443
Total	\$m	1 466	2 540	357	570	610	1 004	946	1 182
Prices									
LME cash b	US\$/t	1 171	2 118	1 297	1 640	2 242	3 292	3 363	4 207
Australia c	A\$/t	1 759	2 874	1 908	2 255	2 992	4 341	4 675	5 362

a Zinc content of all ores, concentrates, slags, residues, intermediate products, refined zinc, zinc powders, flakes and dust. b LME cash, midday, registered brands, minimum 98 per cent, 25 tonne warrants. c EZ Industries, Prime Western, 98.5 per cent. p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.